

BASS CANNON

**Amplified Subwoofer
STW800**

SPARKOMATIC®

Sparkomatic Corporation, Milford, Pennsylvania 18337-0277

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P6773

FIGURE 1

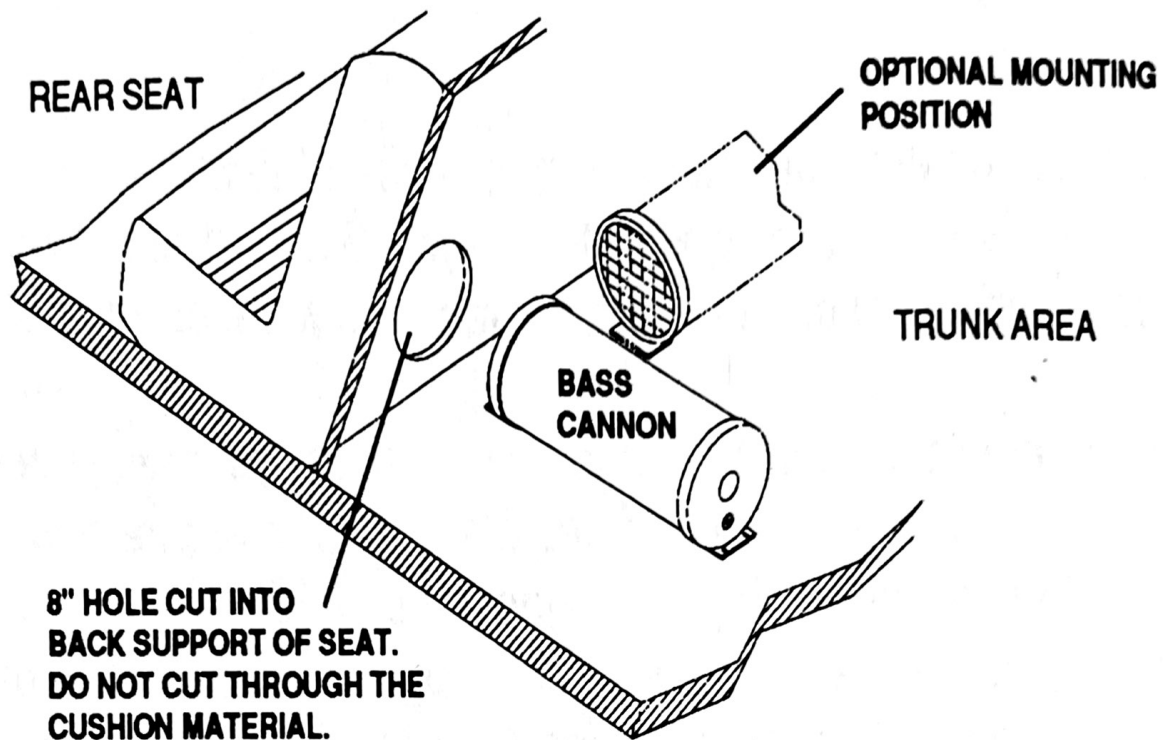


FIGURE 2

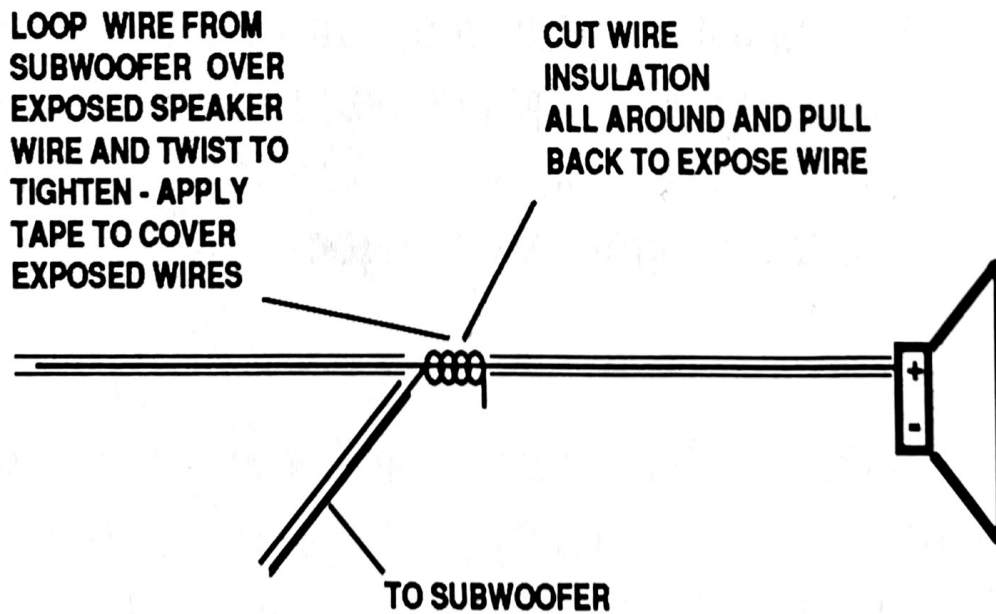


FIGURE 3

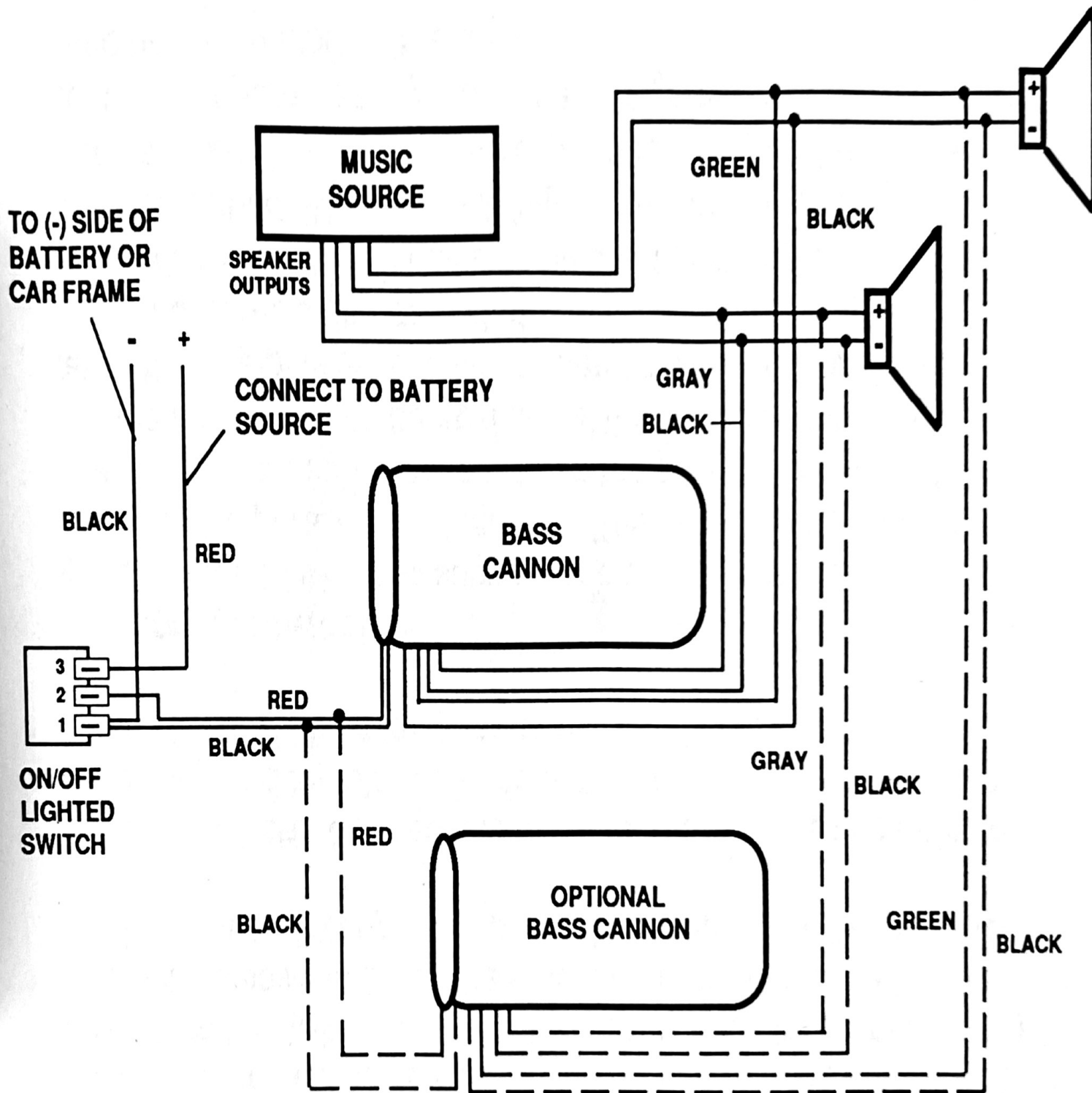
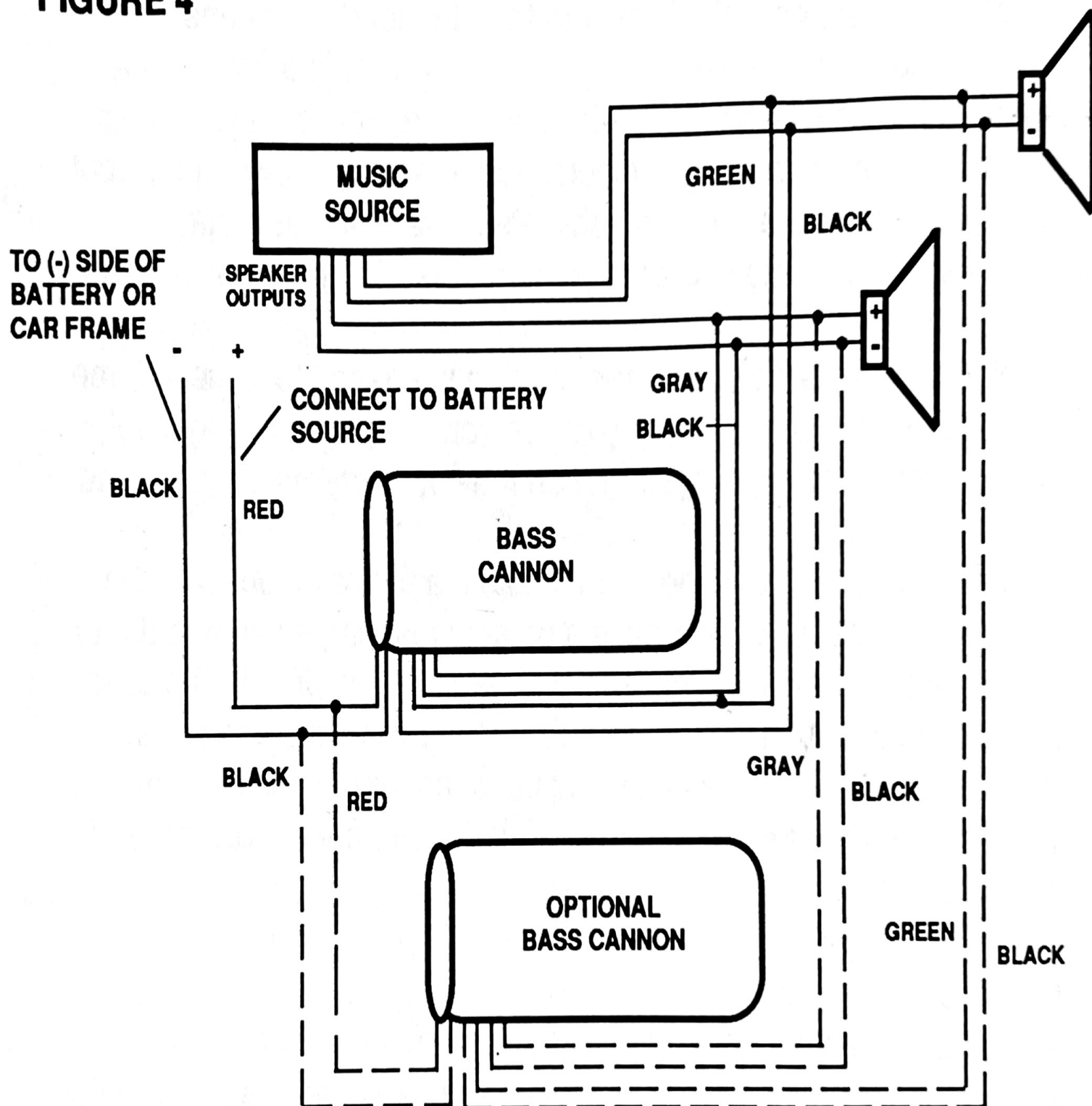


FIGURE 4



Message to Owners

Before installing your new Sparkomatic equipment, be sure to read this manual thoroughly and follow the instructions carefully. That way you'll be sure to get the full enjoyment of the features engineered into your unit. Thank you for choosing Sparkomatic equipment.

Description

The STW800 Amplified Subwoofer is designed to reinforce bass frequencies below 250 Hz utilizing a single 8" speaker and two internal amplifiers. The tube housing is tuned by a rear port to provide maximum bass. The use of two amplifiers produces high audio power at low distortion, low amplifier noise and long amplifier life. Frequencies below 250 Hz are nondirectional allowing the subwoofer to be mounted in a variety of locations.

Mounting the Subwoofer

It is recommended that the subwoofer be mounted securely in a location that is relatively flat. Use the subwoofer as a template to mark off the four mounting hole locations. Drill 1/8" holes at each location. Do not overtighten the screws--just tighten until snug. Be certain the screws will not damage the fuel lines or electrical connections.

The subwoofer mounting location for hatchbacks, pickup trucks, vans, etc. should allow the speaker to be positioned with the grille side of the unit pointed into the corner and at least 4" from the sides of the vehicle. In some instances the subwoofer can be placed on the back seat or the floor of the vehicle. Some sedans have airtight trunks. If mounted in the trunk, the subwoofer performance may be restricted. By making an 8" hole in the back wall of the rear seat the sound intensity will be greatly increased. See Figure 1. **DO NOT CUT THROUGH THE CUSHION MATERIAL.** The subwoofer sounds will penetrate through the cushion part of the seat easily. To make the hole, use an electrician's saw or saber saw. Clean away anything that may vibrate and cause distortion.

Connecting the Subwoofer to an Audio Source

The STW800 has 3 pairs of wires that must be connected to make it operational. One pair (red and black) is connected to the battery and the other two pairs are connected across the speaker output of the music source. The input circuitry of the STW800 amplifiers are designed to operate from high or low power radios without any additional components. See Figure 2. Connections to the speaker wires can be made by carefully cutting around the insulation (not enough to cut the wire) and pulling back on the insulation to expose the wire. Then wrap the subwoofer speaker wires around the exposed wire and tape over the wires to prevent shorts. If a soldering iron is available the leads can be soldered directly to the speaker terminals.

Care must be taken when making connections to the speaker to make sure the "phasing" of the input subwoofer leads are correct. If one input is out of phase with the other, very little sound will come

out of the subwoofer. If this occurs then the leads from one speaker must be reversed. When the subwoofer is added to the output of the vehicle speakers there will be a noticeable increase in bass power. If bass is not increased, then the subwoofer output may be out of phase with the vehicle speakers. In this instance input leads to the subwoofer must be reversed. This must be done to both inputs.

To blend the subwoofer with the existing speakers, turn the volume up on the music source slightly above your normal listening level, then adjust the bass level control on the subwoofer to enhance the low bass sounds.

* When connecting the speakers, make the following observation. Notice that most speakers have a polarity marking such as a dot or + sign on the speaker terminals. These markings denote the positive terminals and are used as a guide to "phase" the speakers. Improper phasing causes a loss of bass response. Follow the wiring diagram in Figure 3 to ensure that the speakers are properly phased.

Connecting Power

Two choices are available when connecting power to the subwoofer. In one instance the supplied switch can be used to turn the subwoofer power on and off.

Power can also be obtained from the accessory terminal. If the accessory terminal is used then the subwoofer will be activated whenever the ignition is turned on. The subwoofer amplifiers have long life and will not be damaged if kept on all the times the vehicle is operating.

With Switch: Mount the switch under the dash with the 2 screws supplied. Use the switch as a template to mark off the 2 mounting holes. Use a 7/64" drill to make starter holes for the screws. Connect the terminal connector on the black ground wire to post #1 on the switch housing and to the negative post on the battery or to the chassis frame. Connect the terminal connector on the red wire to post #2 on the switch housing. A separate red wire (1 meter long) connects to position #3 on the switch housing and to the fuse box, ignition post or directly to the plus (+) terminal of the battery. See Figure 3.

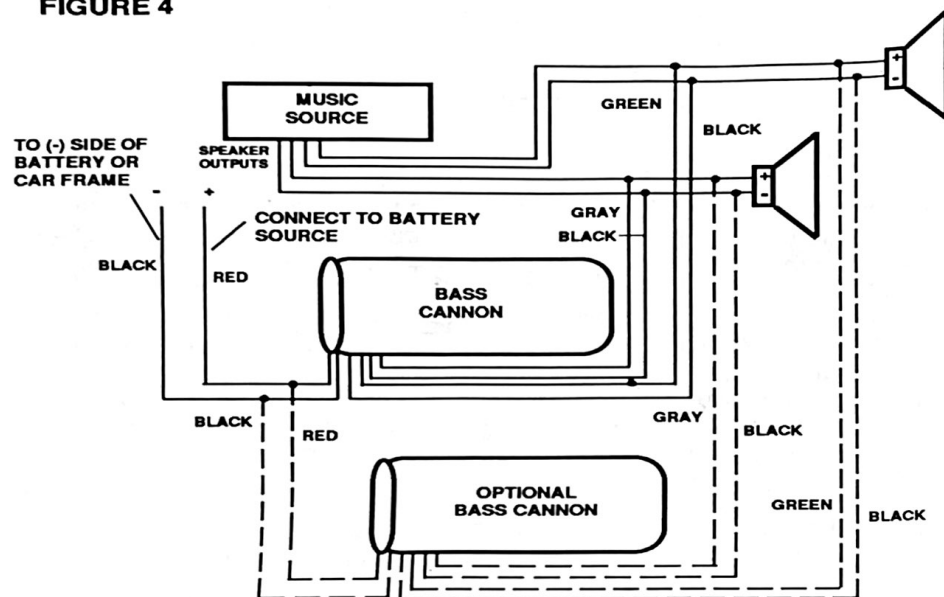
Without Switch: Connect the red lead to the accessory terminal of the battery and the black ground lead to the chassis frame. See Figure 4. (Note that the separate red wire is not used.)

Additional Subwoofers

If it is desired to increase subwoofer bass, several units can be connected in parallel, see Figure 3. The switch can be used to power up to four subwoofers. When the subwoofers are at full volume they consume approximately 4 amperes. Care must be taken that the plus (+) supply can handle the increase in current consumption as units are added.

The accessory terminal can also be used to supply power as previously described. When paralleling make sure the colors of the wires are observed. When units are added adjust the bass level controls to approximately the same level, otherwise one unit may become overloaded before the other.

FIGURE 4

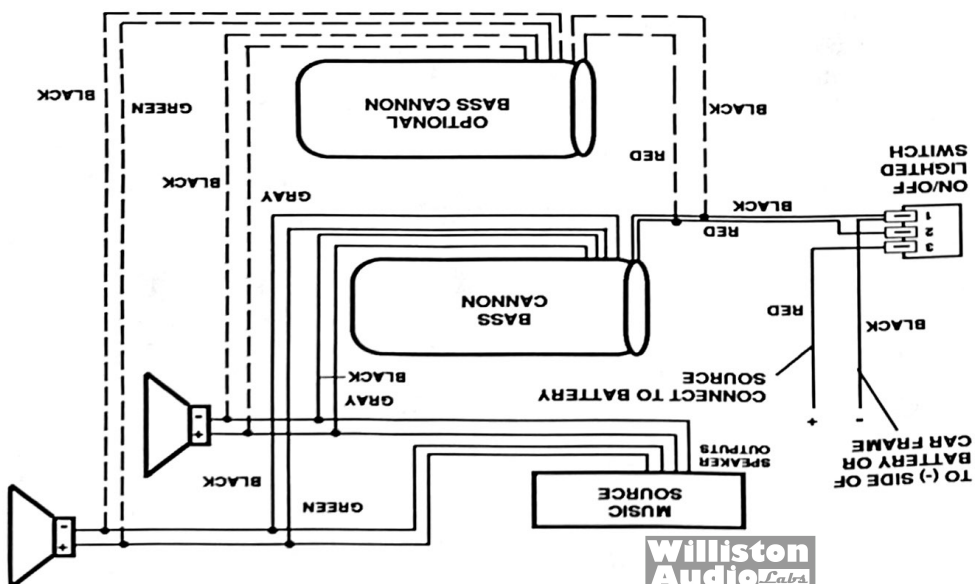


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Williston Audio Labs
Not for Resale

FIGURE 3

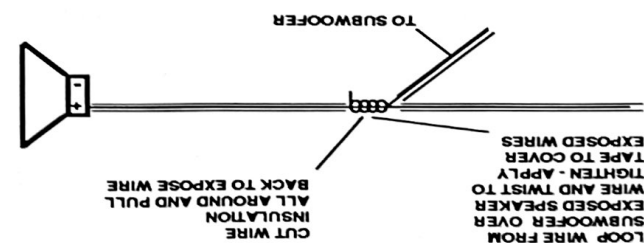


FIGURE 2

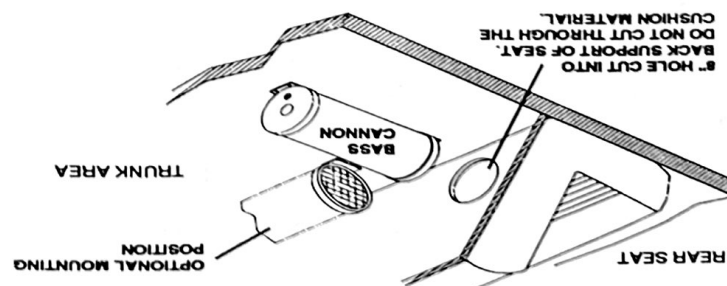
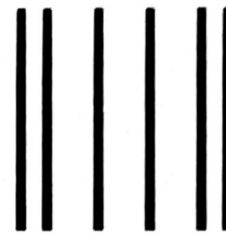


FIGURE 1



NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES

BUSINESS REPLY MAIL

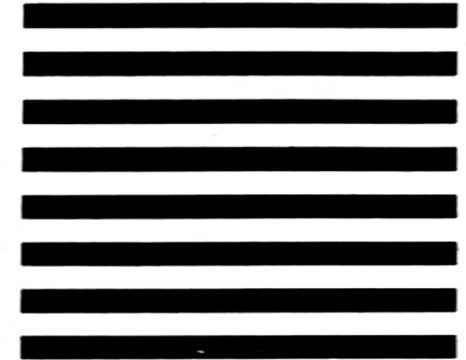
FIRST-CLASS MAIL PERMIT NO. 2403 FORT WORTH, TEXAS

POSTAGE WILL BE PAID BY ADDRESSEE

SPARKOMATIC EXTENDED SERVICE PLAN

2309 E. Loop 820 N.

Fort Worth, Texas 76118-9951

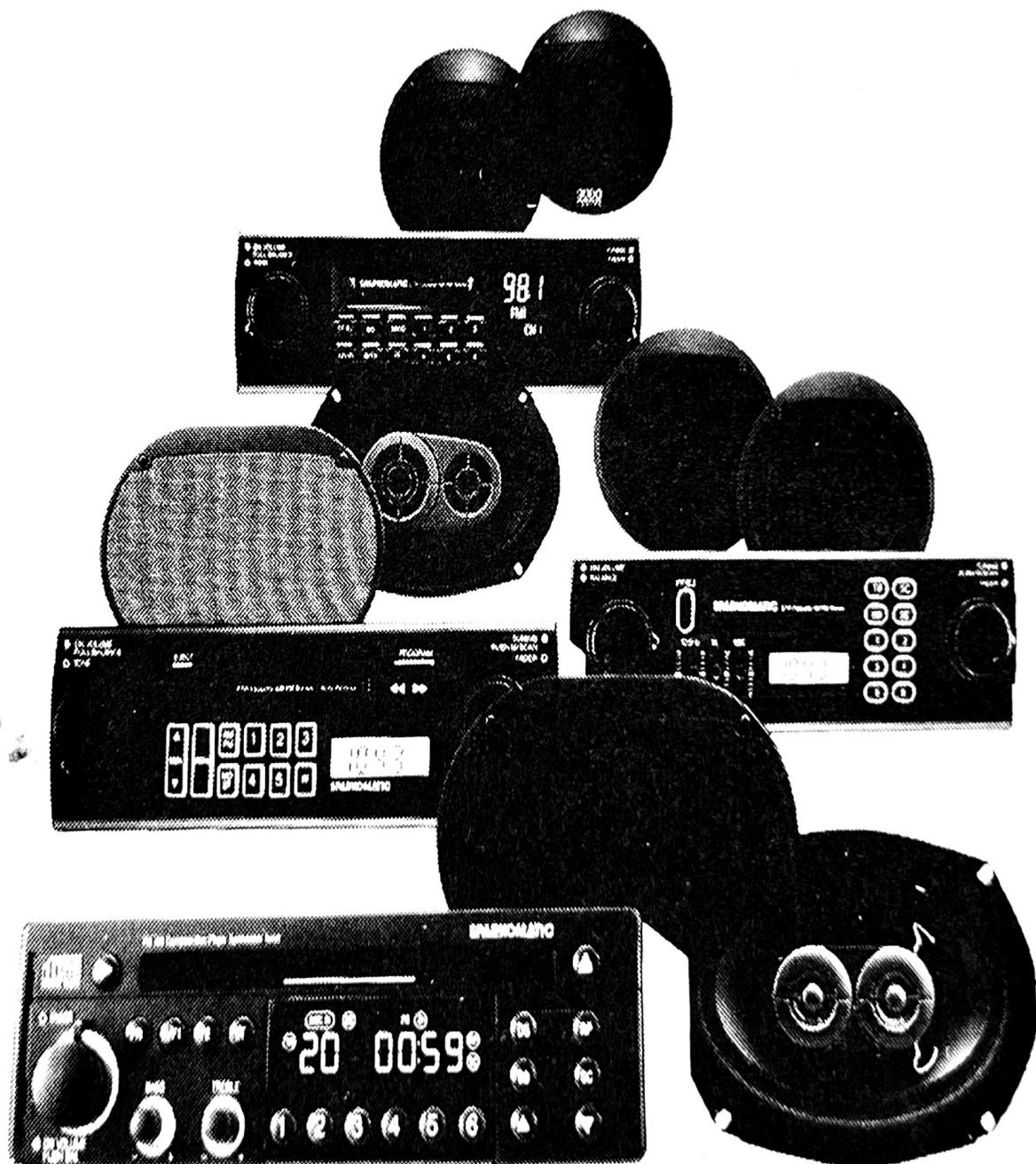


WTEC-OEM



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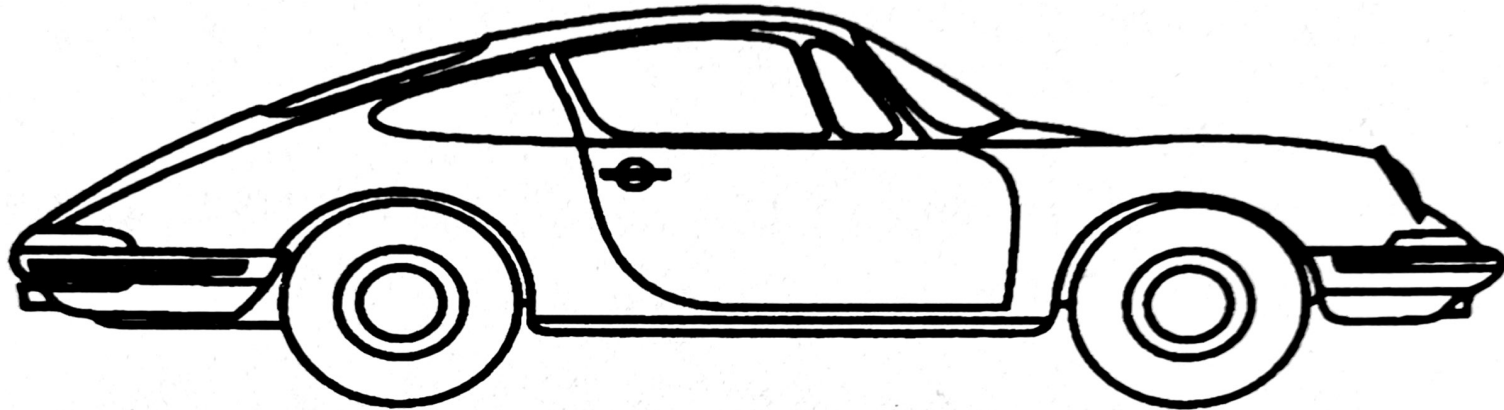
SPARKOMATIC®



**Williston
Audio**
Not for Resale

WTEC-OEM

Extend Your Sparkomatic Warranty Up To 5 Years. *It's Easy!*



Keep the Good Times Rolling

To SPARKOMATIC Extended Service Plan customers:
A validation card will be sent to you within 60 days of acceptance of your enrollment. If you do not receive the validation card, please call 800-457-0149.

This Plan is underwritten by American Hardware Warranty Corporation II, a licensed warranty association.

The SPARKOMATIC Extended Service Plan

- *Extends the full Sparkomatic service coverage on all parts and labor.*
- *No deductibles/no hidden charges!*
- *Prevents unexpected repair costs.*
- *One low price – pennies per day.*
- *Transferable.*
- *Toll-free 800 number for fast, courteous service.*

Our exclusive factory direct extended service plan is easy to own.

Just complete the attached enrollment card and send along with payment to the Sparkomatic Extended Service Plan.

TEAR HERE

The Sparkomatic Extended Service Plan extends the original Limited Warranty to a combined total length of coverage as shown in the chart herein.

Date of Purchase	1	2	3	4	5	Coverage: Date of Purchase
Parts and Labor	— x o	— x o	— x o	— x o	x o	2 Year — — 3 Year x x x 5 Year o o o o

PRODUCT	2 Years	3 Years	5 Years
Complete Car Stereo Systems	39.99	59.99	99.99
Car AM/FM Stereo Cassettes	15.99	24.99	47.99
8000/9000 Series Speakers	—	24.99	39.99
7000 and 8000 Amplifiers	15.99	24.99	47.99
CD Players	39.99	59.99	—
Subwoofer Systems	—	24.99	39.99

MAILING INSTRUCTIONS: Detach registration card at dotted line. Fill out completely; applications cannot be processed without your signature. If sending check or money order, be sure it is fastened securely to the inside of this form. **DO NOT SEND CASH.** Fold so return address is showing and seal with tape. No postage necessary if mailed in the United States. Please allow 4-6 weeks for confirmation.

Yes! Enroll me in the **EXTENDED SERVICE PLAN**

NAME _____

ADDRESS _____ / _____ / _____

CITY () STATE ZIP CODE

PHONE - INCLUDE AREA CODE _____

MODEL NUMBER

SERIAL NUMBER

Date of Purchase _____ Where Purchased _____

Check One:

2yr 3yr 5yr

☐ Car AM/FM Cassette

☐ ☐ ☐

☐ Car Stereo System

☐ ☐ ☐

☐ Amplifiers 7000 & 8000

☐ ☐ ☐

Check One:

2yr 3yr 5yr

☐ 8000/9000 Series Speakers

☐ ☐ ☐

☐ CD Players

☐ ☐ ☐

☐ Subwoofer Systems

☐ ☐ ☐

☐ My check/money order is enclosed made payable to **SPARKOMATIC EXTENDED SERVICE PLAN** for the amount of \$_____.

☐ Charge to my: ☐ VISA ☐ MasterCard

Expiration Date ____/____/____

Account Number: _____

Signature _____





PLACE
STAMP
HERE

SPARKOMATIC CORPORATION
PO BOX 277
MILFORD PA 18337-0277



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WARRANTY REGISTRATION CARD

IMPORTANT: To be covered under the Sparkomatic Corporation warranty program, you must complete the warranty information requested below, and return this card to us within ten (10) days of purchase.

WARRANTY INFORMATION (Please Print Clearly)

MODEL NO. **STW800**

SERIAL NO. _____

PURCHASER'S NAME: _____

ADDRESS: _____

CITY: _____

STATE: _____

ZIP: _____

OTHER INFORMATION (To Be Answered By Purchaser)

☐ Male

☐ SINGLE

AGE: _____

☐ Female

☐ MARRIED

EDUCATION:

☐ SOME HIGH SCHOOL

☐ HIGH SCHOOL GRAD

☐ SOME COLLEGE

☐ COLLEGE GRAD

SPARKOMATIC EQUIPMENT INSTALLED IN WHAT TYPE OF CAR?

MAKE _____

MODEL _____

YEAR _____



REASON FOR PURCHASING THIS SPARKOMATIC UNIT (Check one):

- ☐ TO ADD BASS TO AN EXISTING SOUND SYSTEM
☐ TO REPLACE UNIT FORMERLY IN CAR OR TRUCK
☐ FOR A NEW CAR OR TRUCK NOT PREVIOUSLY EQUIPPED WITH A SUBWOOFER

WHO INSTALLED THIS EQUIPMENT? (Check One):

- ☐ Yourself ☐ Friend ☐ Dealer Where Unit Was Purchased
☐ Professional Installer

DID YOU PURCHASE OTHER SPEAKERS, AMPLIFIER(S) OR RADIO WITH YOUR SUBWOOFER? Yes ☐ No ☐

IF YES, WHAT BRAND? _____

IF NO, WHAT BRAND DO YOU PRESENTLY OWN? _____

HOW MANY SPEAKERS ARE NOW IN YOUR SOUND SYSTEM? 2 ☐ 4 ☐

WHAT IS YOUR FAVORITE TYPE OF MUSIC? (Check One):

- | | | |
|---|---|--|
| <input type="checkbox"/> Rock & Roll | <input type="checkbox"/> Country & Western | <input type="checkbox"/> Soul |
| <input type="checkbox"/> Heavy Metal | <input type="checkbox"/> Jazz | <input type="checkbox"/> Contemporary Hits |
| <input type="checkbox"/> Folk | <input type="checkbox"/> Rhythm & Blues | <input type="checkbox"/> Big Band |
| <input type="checkbox"/> Easy Listening | <input type="checkbox"/> Other (Please Specify) _____ | |

WHAT PROMPTED YOU TO BUY A SPARKOMATIC BASS CANNON? (Check one):

- | | |
|---|--|
| <input type="checkbox"/> Store Salesman | <input type="checkbox"/> Radio Commercial |
| <input type="checkbox"/> Magazine Ad | <input type="checkbox"/> Store Demonstrator Display |
| <input type="checkbox"/> Friend | <input type="checkbox"/> Local Newspaper Ad Other (Please Specify): _____ |

THANK YOU!

DETACH HERE, FOLD, TAPE OR STAPLE, AND MAIL

LIMITED WARRANTY

Sparkomatic Corporation warrants this merchandise to be free from defects in material or factory workmanship in the course of normal installation, use and service. The manufacturer's obligation under this warranty is limited to repairing or replacing any defective part, provided that the unit is returned to Sparkomatic, and that the defect has occurred within 1 year of the original date of purchase. Sparkomatic will service or replace, at no charge, any part which our investigation shows to be defective and under warranty.

This warranty is valid only if the purchaser returning the merchandise has on file at the factory a completed warranty registration card. If no warranty card is on file, a sales receipt indicating the date of purchase must accompany the unit being returned.

Any unit determined to be under warranty will be serviced for warranted defects if the unit is returned postage prepaid and packaged in the original carton with \$5.00 to cover the cost of handling, return postage and insurance. Send check or money order *only*, payable to Sparkomatic Corp. DO NOT return the unit to the dealer. Return the unit, with a statement of the problem to:

SERVICE DEPARTMENT
SPARKOMATIC CORPORATION
PO BOX 277
MILFORD, PA 18337-0277

This warranty does not apply to any of the manufacturer's products which have been repaired in any way so as, in the judgment of the factory, to injure their stability or reliability; or which have been subject to misuse, neglect or accident; or which have had the serial number altered or removed. The provisions of this warranty do not apply to any of the manufacturer's products which have been connected, installed or adjusted in any way other than in accordance with the instructions furnished by the factory. The warranty does not include complete assemblies, cost incurred for the correction of faulty installation, elimination of car static or motor noise, antenna repairs, labor costs for the removal of the unit for repairs or for any other liabilities for causes beyond the manufacturer's control.

This warranty applies only to the original purchaser, and is in lieu of all other warranties expressed or implied. No representative or person is authorized to assume for the factory any other liability in connection with the sale of Sparkomatic's product.

SPARKOMATIC®

Sparkomatic Corporation, Milford, Pennsylvania 18337 U.S.A.

